Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended): A system for detecting discontinuously transmitted (DTX) frames comprising:

first means for receiving data transmitted in a plurality of frames;

second means for classifying each of the frames;

third means for analyzing the classification of a number of successive frames of the received data and providing a metric with respect thereto; and

fourth means, responsive to the metric, for determining if a frame is a ~~discontinuously transmitted~~ DTX frame, including reclassifying improperly classified erasure frames to be DTX frames.

2 (currently amended): The ~~invention~~ system of [[C]]claim 1 wherein the second means includes means for error checking the frames.

3 (currently amended): The ~~invention~~ system of [[C]]claim 2 wherein the means for error checking includes means for performing a cyclic redundancy check.

4 (currently amended): The ~~invention~~ system of [[C]]claim 3 wherein the second means includes means for classifying the frames as good frames, erasure frames, or ~~discontinuous frames~~ DTX frames.

5 (currently amended): The ~~invention~~ system of [[C]]claim 4 wherein the third means includes a filter.

6 (currently amended): The ~~invention~~ system of [[C]]claim 5 further including means for assigning a numerical value to each of the frames based on the classification thereof.

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7 (currently amended): The ~~invention~~ system of [[C]]claim 6 wherein the filter is of the form Yn = Yn-1 + Xn where 'n' is a frame number, Yn is the filter output for a given frame n, Yn-1 is the filter output for a previous frame, and Xn is a stream of input frames.

8 (currently amended).: The ~~invention~~ system of [[C]]claim 7 further including means for setting a threshold for the output Yn of the filter.

9 (currently amended): The ~~invention~~ system of [[C]]claim 8 further including means for outputting an indication of a detection of a ~~discontinuous transmission~~ DTX frame when the filter output exceeds the threshold.

10 (cancel).

11 (currently amended): The ~~invention~~ system of [[C]]claim [[10]] 8 wherein the fourth means ~~for reclassifying frames includes means for changing the frame classification~~ reclassifies an improperly classified erasure frame to be ~~discontinuous~~ a DTX frame if the frame was classified as an erasure frame and the output of the filter exceeds the threshold.

12 (currently amended): A communications system comprising:

a transmitter adapted to transmit frames of data, at least some of the frames being discontinuous transmission (DTX) frames;

a receiver adapted to receive and classify the transmitted frames;

a processor; and

software running on the processor for analyzing the classification of a number of successive frames of the received data and providing a metric with respect thereto, and for determining, in response to the metric, if a frame is a discontinuously transmitted frame, and for reclassifying improperly classified erasure frames to be DTX frames.

13 (currently amended): The ~~invention~~ communications system of [[C]]claim 12 wherein the system includes an error checking mechanism.

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14 (currently amended): The ~~invention~~ <u>communications system</u> of [[C]]<u>c</u>laim 13 wherein the error checking mechanism includes means for performing a cyclic redundancy check.

15 (currently amended): The ~~invention~~ <u>communications system</u> of [[C]]<u>c</u>laim 14 wherein the system includes means for classifying the frames as good frames, erasure frames, or ~~discontinuous~~ <u>DTX</u> frames.

16 (currently amended): The ~~invention~~ <u>communications system</u> of [[C]]<u>c</u>laim 15 wherein the software includes a filter.

17 (currently amended): The ~~invention~~ <u>communications system</u> of [[C]]<u>c</u>laim 16 wherein the software further includes means for assigning a numerical value to each of the frames based on the classification thereof.

18 (currently amended): The ~~invention~~ <u>communications system</u> of [[C]]<u>c</u>laim 17 wherein the filter is of the form $Yn = Yn-1 + Xn$ where 'n' is a frame number, Yn is the filter output for a given frame n, Yn-1 is the filter output for a previous frame, and Xn is a stream of input frames.

19 (currently amended): The ~~invention~~ <u>communications system</u> of [[C]]<u>c</u>laim 18 further including means for setting a threshold for the output Yn of the filter.

20 (currently amended): The ~~invention~~ <u>communications system</u> of [[C]]<u>c</u>laim 19 further including means for outputting an indication of a detection of a ~~discontinuous transmission~~ <u>DTX</u> frame when the filter output exceeds the threshold.

21 (cancel).

22 (currently amended): The ~~invention~~ <u>communications system</u> of [[C]]<u>c</u>laim [[21]] <u>20</u> wherein the ~~means for reclassifying frames includes means~~ <u>software operates</u> for changing the frame classification to ~~discontinuous~~ <u>DTX</u> if the frame was classified as erasure and the output of the filter exceeds the threshold.

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(AMENDMENTFORM.VER1.0-04/30/04)

23 (currently amended): A method for detecting discontinuous transmission (DTX) frames ~~including the steps of~~ comprising:

    receiving data transmitted in a plurality of frames;

    classifying each of the frames;

    analyzing the classification of a number of successive frames of the received data and providing a metric with respect thereto; and

    determining, in response to the metric, if a frame is a ~~discontinuous~~ DTX frame, including reclassifying improperly classified erasure frames to be DTX frames.

24 (currently amended): The invention of [[C]]claim 23 wherein ~~the step of~~ said classifying includes ~~the step of~~ error checking the frames.

25 (currently amended): The ~~invention~~ communications system of [[C]]claim 24 wherein ~~the step of~~ said error checking includes ~~the step of~~ performing a cyclic redundancy check.

26 (currently amended): The ~~invention~~ communications system of [[C]]claim 25 wherein ~~the step of~~ said classifying includes ~~the step of~~ classifying the frames as good frames, erasure frames, or ~~discontinuous~~ DTX frames.

27 (currently amended): The ~~invention~~ communications system of [[C]]claim 26 further including ~~the step of~~ assigning a numerical value to each of the frames based on the classification thereof.

28 (currently amended): The ~~invention~~ communications system of [[C]]claim 27 wherein ~~the step of~~ said classifying includes ~~the step of~~ computing a filter output: $Yn = Yn-1 + Xn$ where 'n' is a frame number, Yn is the filter output for a given frame n, Yn-1 is the filter output for a previous frame, and Xn is a stream of input frames.

29 (currently amended): The ~~invention~~ communications system of [[C]]claim 28 further including ~~the step of~~ setting a threshold for the output Yn.

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30 (currently amended): The ~~invention~~ <u>communications system</u> of [[C]]<u>c</u>laim 29 further including ~~the step of~~ outputting an indication of a detection of a ~~discontinuous transmission~~ <u>DTX</u> frame when the filter output exceeds the threshold.

31 (cancel).

32 (currently amended): The ~~invention~~ <u>communications system</u> of [[C]]<u>c</u>laim [[31]] <u>30</u> wherein ~~the step of~~ <u>said</u> reclassifying <u>improperly classified erasure</u> frames includes ~~the step of~~ changing the frame classification to discontinuous if the frame was classified as erasure and the output of the filter exceeds the threshold.

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